

## 3G-SDI/HD-SDI/SD-SDI to HDMI with Stereo Audio Converter AT-3GSDI-HD2



### User Manual

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## INTRODUCTION

Atlona AT-3GSDI-HD2 is a 3G-SDI/HD-SDI/SD-SDI to HDMI with Stereo Audio Converter is a perfect device for monitoring and production where SDI Camera or Computer SDI output needs to be converted to work with HDMI or DVI Display's.

The 3GSDI-HD2 is a pure digital converter which guarantees no transition loss. Converter fully supports all audio formats up to 8-channel and able to send audio though HDMI port as well as though a separate Stereo Audio output.

The converter is featured with a re-clocked SDI loop-out to either allow daisy chaining or connect to a local SDI display.

## FEATURES

- Supported all 3G, HD and standard SD formats (425M Level A & B, 424M, 292M, 259M-C)
- Supports embedded Audio up to 8-channel
- The converter is able to auto-detect 3G, HD or SD-SDI format
- SDI Loop-out perfect for connecting to a local display or for daisy chaining
- Stereo Audio output, perfect when DVI display is being used

## PACKAGE CONTENTS

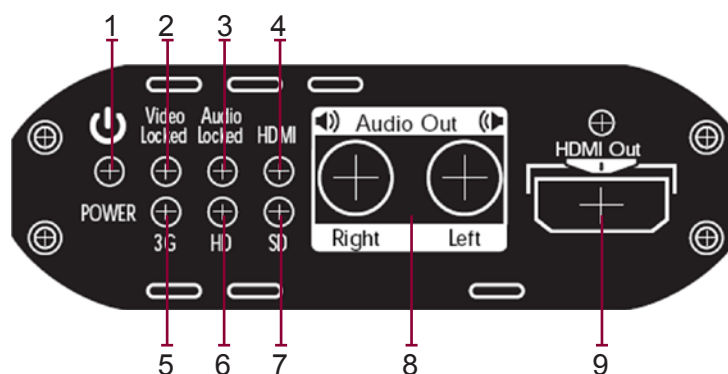
- 1 x AT-3GSDI-HD2
- 1 x 5v Power supplies (Universal 110/240V)
- 1 x Instructions manual

## SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Inputs                      | 1 x SDI (3G/HD/SD)   |
| Outputs                     | 1 x HDMI and 1 x SDI (3G/HD/SD)  |
| SDI standards               | SD-SDI, HD-SDI & 3G-SDI  |
| Auto 3G/HD/SD-SDI detection | Yes  |
| Video bandwidth             | 2.970Gpbs, 2.970/1.001Gbps   |
| Video support               | [3G] – 1080p@50/59.94/60Hz (4:2:2), 1080p@24/25/30Hz (4:4:4), 1080i@50/59.94/60Hz (4:4:4), 720p@24/25/50/59.94/60Hz (4:4:4)<br>[HD] – 720p@50/59.94/60Hz, 1035i@50/59.94/60Hz, 1080i@50/59.94/60Hz, 1080p@24/30Hz<br>[SD] – NTSC@59.94Hz, PAL@50Hz |
| Input signal                | [SD-SDI] SMPTE 259M-C; [HD-SDI] SMPTE 292M, 296M; [3G-SDI] SMPTE 424M/425M   |
| Output signal HDMI          | Audio mode 7.1/5.1/Stereo  |
| SDI Output Relocking        | [3G-SDI] up to 100m (330ft) [HD-SDI] up to 200m (660ft) [SD-SDI] up to 300m (1000ft)   |
| Audio support               | Yes  |
| BNC connector               | 3G 75W inter-locked socket   |
| HDMI connector              | Type A [19-pin female]   |
| Dimensions (L x W x H)      | 137 x 90 x 25mm [5.39"x3.54"x1"]   |
| Weight                      | 1LB  |
| Power consumption           | 4Watts   |
| Operation temperature       | 0°C ~ 40°C / 32°F ~ 104°F  |
| Storage temperature         | 20°C ~ 60°C / -4°F ~ 104°F   |
| Relative humidity           | 20~90% RH no condensation  |

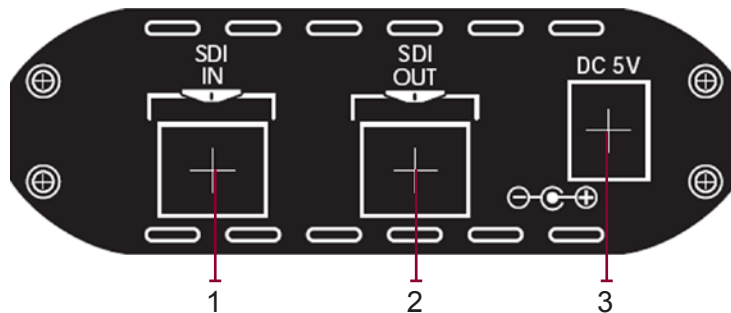
## PANEL DESCRIPTIONS

### 1. Left Panel



1. **Power** - Power Button
2. **Video Lock** – LED will turn green as soon as converter detects SDI source and HDMI or DVI Display
3. **Audio Lock** – LED will turn green as soon as converter detects audio on the SDI line and establishes connection with display
4. **HDMI** – HDMI LED will turn green if it senses HDMI display and will stay grey if DVI display is connected
5. **3G** – LED will turn green if converter detects 3G formats
6. **HD** - LED will turn green if converter detects HD formats
7. **SD** - LED will turn green if converter detects SD formats
8. **Audio OUT** – Audio Output to be connected to an Audio input on the display or an audio mixer.  
This connection is usually being used when user has a DVI display
9. **HDMI OUT** - HDMI Output

## 2. Right Panel



1. **SDI IN** – for connecting SDI Camera or SDI output from the computer
2. **SDI OUT** – for connecting a local SDI display or daisy chaining to another converter or mixer/router
3. **DC 5V** – for connecting external power supply

## CONNECTION DIAGRAM



## SAFETY INFORMATION

### Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

### Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols.

Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-3GSDI-HD2. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

## WARRANTY

### Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-3GSDI-HD2) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

### Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

### No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

### No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss.

Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

## ATLONA PRODUCT REGISTRATION

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: ***<http://www.atlona.com/registration>***